

**AMENDMENTS TO THE CLAIMS:**

*Please amend the claims as follows:*

1. (Cancelled)
2. (Previously presented) The semiconductor device according to claim 51, wherein the substrate is silicon carbide.
3. (Previously presented) The semiconductor device according to claim 51, wherein said III-V Nitride semiconductor epitaxial film is formed in contact with a substrate having (11-20) face.
4. (Cancelled)
5. (Previously presented) The semiconductor device according to claim 51, wherein a number of group III atoms are equal to a number of nitrogen atoms on a surface of said III-V Nitride semiconductor epitaxial film.
- 6-50. (Cancelled)
51. (Previously presented) A semiconductor device comprising a III-V Nitride semiconductor epitaxial film having 4H-polytype structure formed in contact with a substrate having 4H-type structure, wherein the III-V Nitride semiconductor epitaxial film is a 4H-AlN film.

52. (New) An optoelectronic device comprising,  
a III-V Nitride semiconductor epitaxial film having 4H-polytype structure formed in contact with a substrate having 4-H type structure; and  
a waveguide formed on said III-V Nitride semiconductor epitaxial film,  
wherein the III-V Nitride semiconductor film is a 4H-AlN film, and  
said III-V Nitride semiconductor epitaxial film includes an n-type layer, a p-type layer and an active layer, said active layer being formed between said n-type layer and said p-type layer.

53. (New) The optoelectronic device according to claim 52, wherein a plurality of layers are disposed between said waveguide and said substrate.

54. (New) The optoelectronic device according to claim 52, wherein said substrate having 4-H type structure is SiC.

55. (New) The optoelectronic device according to claim 52, wherein said III-V Nitride semiconductor epitaxial film is formed on a substrate having (11-20) face.

56. (New) The optoelectronic device according to claim 52, wherein a number of group III atoms are equal to a number of nitrogen atoms on a surface of said III-V Nitride semiconductor epitaxial film.

57. (New) The optoelectronic device according to claim 52, wherein said waveguide is formed as a straight line perpendicular to either (0001) face or (1-100) face.